

Attachment 1
Add New L4 Requirements and Subsection
Baseline: 12/20/96

7.1.6 Replay Stored NCC Ground Telemetry

Stored real-time ground telemetry data may be processed by specifying the desired spacecraft, start and optional stop times, and replay rate. Replay operations simulate real-time ground telemetry processing.

paragraph_id	release	requirement_key	text	clarification	req_type	verification_method	verification_status	ccr
F-RMS-05010	B		The EOC shall provide the capability to replay stored NCC ground telemetry based upon a user specified time period.	UPD Messages only.	functional	test/analysis	unverified	
F-RMS-05020	B		The EOC shall process all NCC ground telemetry blocks for the requested period, during the replay operation.	UPD Messages only.	functional	test/analysis	unverified	
F-RMS-05030	B		The EOC shall be capable of processing stored NCC ground telemetry for analysis at twelve (12) times the real-time rate.	This requirement is derived from the fact that the FOS must be able to analyze twenty-four (24) hours of stored telemetry data within a two (2) hour period. This capability is used for off-line batch processing and when immediate display of information is not necessary or desired (i.e., gathering statistics on a particular parameter over several weeks of stored ground telemetry data.)	functional performance	test/analysis	unverified	
F-RMS-05040	B		The EOC shall be able to process stored NCC ground telemetry at the real-time rate or at a user specified rate up to three (3) times the real-time rate.	UPD Messages only.	functional performance	test/analysis	unverified	

7.2.6.2 Replay Stored EDOS CODA Reports

Stored real-time EDOS CODA Reports may be processed by specifying the desired spacecraft, start and optional stop times, and replay rate. Replay operations simulate real-time ground telemetry processing.

paragraph_id	release	requirement_key	text	clarification	req_type	verification_method	verification_status	ccr
<u>F-RMS-05050</u>	<u>B</u>		<u>The EOC shall provide the capability to replay stored EDOS CODA Reports based upon a user specified time period.</u>		<u>functional</u>	<u>test/analysis</u>	<u>unverified</u>	
<u>F-RMS-05060</u>	<u>B</u>		<u>The EOC shall process all EDOS CODA Reports for the requested period, during the replay operation.</u>		<u>functional</u>	<u>test/analysis</u>	<u>unverified</u>	
<u>F-RMS-05070</u>	<u>B</u>		<u>The EOC shall be capable of processing stored EDOS CODA Reports for analysis at twelve (12) times the real-time rate.</u>	<u>This requirement is derived from the fact that the FOS must be able to analyze twenty-four (24) hours of stored telemetry data within a two (2) hour period. This capability is used for off-line batch processing and when immediate display of information is not necessary or desired (i.e., gathering statistics on a particular parameter over several weeks of stored ground telemetry data.)</u>	<u>functional performance</u>	<u>test/analysis</u>	<u>unverified</u>	
<u>F-RMS-05080</u>	<u>B</u>		<u>The EOC shall be able to process EDOS CODA Reports at the real-time rate or at a user specified rate up to three (3) times the real-time rate.</u>		<u>functional performance</u>	<u>test/analysis</u>	<u>unverified</u>	

paragraph_id	release	requirement_key	text	clarification	req_type	verification_method	verification_status	ccr
F-ANA-01015	B		The FOS shall be able to access all archived NCC/EDOS data for analysis.		functional	test	unverified	
F-ANA-03012	B		The FOS shall be able to perform analysis on all NCC and EDOS parameters contained within the stored NCC/EDOS data received during real time.		functional	test	unverified	
F-ANA-04035	B		The FOS shall provide the capability to generate datasets from stored NCC and EDOS data received in real time.		functional	test	unverified	

Attachment 2: Add RBR/L4 Link

CCR: _____ Baseline: 12/20/96

RBR paragraph_id	Level 4 paragraph_id
ICC-4095#B	F-RMS-05010
EOC-5030#B	F-RMS-05010
ICC-4095#B	F-RMS-05020
EOC-5030#B	F-RMS-05020
EOC-5030#B	F-RMS-05030
ICC-4095#B	F-RMS-05030
EOC-5030#B	F-RMS-05040
ICC-4095#B	F-RMS-05040
EOC-5030#B	F-RMS-05050
ICC-4095#B	F-RMS-05050
EOC-5030#B	F-RMS-05060
ICC-4095#B	F-RMS-05060
EOC-5030#B	F-RMS-05070
ICC-4095#B	F-RMS-05070
EOC-5030#B	F-RMS-05080
ICC-4095#B	F-RMS-05080
ICC-4410#B	F-ANA-01015
ICC-4410#B	F-ANA-03012
EOC-6010#B	F-ANA-04035

Attachment 3: Add Component to Component Class**CCR: _____ Baseline: 12/20/96**

Component paragraph_id	object key	component_type	dev_category	text	ccr
<u>FgSmManager</u>	<u>new</u>	<u>Object</u>	<u>Develop</u>	<u>FOS Object</u>	
<u>FgGmManager</u>	<u>new</u>	<u>Object</u>	<u>Develop</u>	<u>FOS Object</u>	
<u>FgEiManager</u>	<u>new</u>	<u>Object</u>	<u>Develop</u>	<u>FOS Object</u>	
<u>FgEoManager</u>	<u>new</u>	<u>Object</u>	<u>Develop</u>	<u>FOS Object</u>	

Attachment 4: Add Component Class Link to Level 4**CCR: _____ Baseline: 12/20/96**

Level 4 paragraph_id	Component paragraph_id
<u>F-RMS-05010</u>	<u>FgSmManager</u>
<u>F-RMS-05010</u>	<u>FgGmManager</u>
<u>F-RMS-05020</u>	<u>FgSmManager</u>
<u>F-RMS-05020</u>	<u>FgGmManager</u>
<u>F-RMS-05030</u>	<u>FgSmManager</u>
<u>F-RMS-05030</u>	<u>FgGmManager</u>
<u>F-RMS-05040</u>	<u>FgSmManager</u>
<u>F-RMS-05040</u>	<u>FgGmManager</u>
<u>F-RMS-05050</u>	<u>FgEiManager</u>
<u>F-RMS-05050</u>	<u>FgEoManager</u>
<u>F-RMS-05060</u>	<u>FgEiManager</u>
<u>F-RMS-05060</u>	<u>FgEoManager</u>
<u>F-RMS-05070</u>	<u>FgEiManager</u>
<u>F-RMS-05070</u>	<u>FgEoManager</u>
<u>F-RMS-05080</u>	<u>FgEiManager</u>
<u>F-RMS-05080</u>	<u>FgEoManager</u>
<u>F-ANA-01015</u>	<u>FaAcOfflineAnaController</u>
<u>F-ANA-03012</u>	<u>FaPaAnalysisParameter</u>
<u>F-ANA-04035</u>	<u>FaPaDataset</u>

Note: L4 to IT_FOS Links will be provided in a future CCR.

Attachment 5: Modify L4 Requirement Text

CCR: _____ Baseline: 12/20/96

L4 id	object key	rel	req_type	verification_method	verification_status	text	req_clarification	CCR
F-FUI-02300	1753	B	functional	demo	<u>unverified</u>	The FOS shall provide the user the capability to select a time range for the telemetry replay data to play, including: a. start time b. stop time c. begin time	<u>Replay data includes telemetry, NCC UPD Messages, and EDOS CODA Reports.</u>	
F-FUI-02310	1755	B	functional	test	<u>unverified</u>	The FOS shall provide the means of stepping forward through the telemetry replay data by specifying the amount of time in seconds.	<u>Replay data includes telemetry, NCC UPD Messages, and EDOS CODA Reports.</u>	
F-FUI-02315	1756	B	functional	demo	<u>unverified</u>	The FOS shall allow the user to pause the replay of the telemetry data sequence.	<u>Replay data includes telemetry, NCC UPD Messages, and EDOS CODA Reports.</u>	
F-FUI-02320	1757	B	functional	demo	<u>unverified</u>	The FOS shall allow the user to resume the paused replay of the telemetry data sequence.	<u>Replay data includes telemetry, NCC UPD Messages, and EDOS CODA Reports.</u>	

Attachment 6: Add Missing Attributes
CCR Baseline: 12/20/96

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	CCR	text	interpretation text	clarification
EOC-6010#B	3760	mission critical	FOS	functional	test	un-verified	test	<u>un-verified</u>		The EOC shall provide the capability to perform analysis on real-time telemetry data, spacecraft recorder housekeeping data, and data from the EOC history log.		
ICC-4095#B	4556	mission critical	FOS	functional	test	un-verified	test	<u>un-verified</u>		The ICC shall provide the capability to receive and process, non-telemetry data, which includes at a minimum the following: a. Monitor blocks from the DSN, GN, and WOTS b. Status messages from EDOS		
ICC-4410#B	4616	mission critical	FOS	functional	test	un-verified	test	<u>un-verified</u>		The ICC shall provide the capability to perform analysis on	B: Enhanced functionality provided.	

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	CCR	text	interpretation text	clarification
										real-time data, spacecraft recorder data, and data from the ICC history log.		